GEARTECH	CHECKLIST	No. CK4500	SHEET 1 OF 2
		Rev. A	
Lubrication System Design Audit		BY RLE	DATE 9/27/99
		CKD JRM	DATE 9/27/99

LUBRICATION SYSTEM DATA				
Question	Y	N	R	Comments
Do drawings specify the following data?				
Lube system bill of materials?				
Lube system schematic?				
Lube system spare parts list?				
Lube system maintenance manual?				
Lubricant type?				
Lubricant viscosity?				
Lubricant quantity?				
Oil change interval?				

LUBRICATION SYSTEM DESIGN				
Question	Y	N	R	Comments
Is oil quantity adequate?				
Are all bearings except those that dip in oil pressure-fed?				
Does oil pump have adequate capacity?				
Is oil lift (head) reasonable?				
Is filter rating $\beta_{10} \geq 200$?				
Is filter element spin-on?				
Is filter bypass $\geq$ 3.5 bar?				
Is pressure relief valve $\geq$ 3.5 bar?				
Is filter accessible for replacement?				
Is breather desiccant type?				
Does breather have 3 μm dirt filter?				
Is breather accessible for replacement?				
Is breather located in dry, nonpressurized area?				
Is breather located to direct contamination away from gears and bearings?				
Are all plumbing connections welded or reliable (no pipe threads)?				
Does oil cooler have adequate capacity?				
Does cooler have a thermostat?				
Can oil cooler be drained during oil changes?				
Does heater have adequate capacity?				
Does heater have a thermostat?				

HOUSING DESIGN				
Question	Y	N	R	Comments
Does gear housing have the following features?				

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Question	Y	N	R	Comments
Interior surfaces painted?				
Interior surfaces smooth without stagnant areas?				
Floor sloped toward drain?				
Drain at lowest point?				
Drain large size ball valve?				
Spray jets removable from outside?				
Spray jets tack-welded?				
Adequate inspection ports w/ handles & rubber gasket?				
Adequate dipstick?				

CONDITION MONITORING

Question	Y	N	R	Comments
Is lubrication system designed for monitoring?				
Sample port properly designed?				
Magnets provided for monitoring wear debris?				
Pressure gages on both sides of filter?				
Pop-up indicator on filter bypass?				
Low pressure switch $\leq$ 0.5 bar?				
Pressure differential switch on filter?				
Temperature gage at both sides of cooler?				
Thermocouple in sump?				
Thermocouple on bearings?				

AGMA/AWEA 921-A97 CONFORMANCE

Question	Y	N	R	Comments
Does lubrication system conform to AGMA/AWEA 921:				
Oil type?				
Oil viscosity?				
Oil micropitting resistance?				
Oil quantity?				
Pressure fed gears?				
Pressure fed bearings?				
Filter rating?				
Filter bypass?				
Sump temperature?				
Orifices?				
Drain and fill plugs?				
Pressurized ports?				
Oil level indicator?				
Magnetic plug?				
Oil quantity?				
Oil cleanliness?				
Breather?				